Wisconsin
Department of Commerce

Approval # 990069-U (Replaces 940055-U)

Safety & Buildings Division
201 West Washington Avenue
P.O. Box 2658
Madison, WI 53701

# Wisconsin
# Material Approval

Material: Poly-Tech-D™ and Poly-Tech-SC™
Nonmetallic Underground Piping

Manufacturer:
Advanced Polymer Technology, Inc.
2817 McCracken Avenue
Muskegon, MI 49441

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SCOPE OF EVALUATION

Poly-Tech-D™ and Poly-Tech-SC™ underground piping, manufactured by Advanced Polymer Technology, Inc., was evaluated for use as petroleum product piping for underground storage tank systems in accordance with **s. Comm 10.51 (2)**, of the Wisconsin Administrative Flammable and Combustible Liquids Code.

DESCRIPTION AND USE

Poly-Tech D™ is a nonmetallic, single wall piping that consists of five layers: an inner tube of black Nylon 12, two permeation barrier layers, a nylon braid reinforcement layer, and a blue outer cover of low-density polyethylene. Poly-Tech-SC™ includes the same five layers and two additional layers: a clear mylar layer over the previous blue polyethylene, and a second blue polyethylene cover layer that is fabricated to produce an interstitial space for secondary containment.

Both types of piping are available in six diameters. Models P-150, P-175, and P-200 have inside diameters of 1.40, 1.65, and 2.04 inches, respectively, with a tolerance of 0.01 inches. Models P-050, P-075 and P-100 have nominal inside diameters of 0.5, 0.75 and 1.0 inch, respectively.

The pipe is UL listed. The marking for the pipe is ink printed on the outermost layer or jacket at 10-foot intervals, or an adhesive-backed label is used and attached to the pipe on the outermost layer or jacket at 10-foot intervals.

## TESTS AND RESULTS

Poly-Tech-D™ and Poly-Tech-SC™ piping was found to comply with the current UL requirements for this class of piping and are suitable for use in the distribution of petroleum products, alcohols, alcohol-gasoline mixtures and gasoline containing up to 20% MTBE.

## LIMITATIONS OF APPROVAL

Poly-Tech-D™ and Poly-Tech-SC™ piping is approved as meeting the design and construction standards for underground piping as specified in **s. Comm 10.51 (2)** for working pressures up to 50 psig.

Poly-Tech piping includes associated fittings and is approved for installation with or without the flex connectors normally required under **s. Comm 10.51 (2) (e)**.

Poly-Tech piping is approved for underground (buried) installations only. A maximum of 3 inches of low melting point primary or secondary piping or pipe components may be exposed in an underground sump.

Poly-Tech piping shall be installed, used, and maintained in accordance with the manufacturer's recommendations, the UL listing, and this approval. In the event of conflicts, the more strict requirement shall govern.

Leak detection for the piping system shall be provided in accordance with **s. Comm 10.60 (2)**. The specific leak detection system must be shown on the plans that are submitted for review in accordance with **s. Comm 10.10**. Automatic line leak detectors and line tightness testing methods must be specifically approved for use with flexible piping in accordance with **s. Comm 10.125**. (Note: Evaluation of these leak detection methods with the standard EPA protocol does not demonstrate acceptability of use with flexible piping.)

This approval will be valid through December 31, 2004, unless manufacturing modifications are made to the product or a re-examination is deemed necessary by the department. The Wisconsin Material Approval Number must be provided when plans that include this product are submitted for review.

DISCLAIMER

The Department is in no way endorsing or advertising this product. This approval addresses only the specified applications for the product and does not waive any code requirement unless specified in this document.

Reviewed by: _____

Approval Date: _____ By:_____

Duane Hubeler, P.E.
Code Consultant
Program Development Bureau

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